JOHN D LACKS SITE LUJDL 1-27 LUNENBURG COUNTY

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

PART D-VI: LAND API	LICATION AGREEMEN	T - BIOSOLIDS AND INDU	ISTRIAL RESIDUALS
A. This land application ag here as "Landowner", and remains in effect until it is t the Landowner in the even individual parcels identified	Recyc Systems, Inc. erminated in writing by eithet of a sale of one or more part in this agreement changes.	between ELLES referred to here as the "Perm r party or, with respect to thos rcels, until ownership of all pa those parcels for which owne esiduals under this agreement	LACKS referred to bittee". This agreement se parcels that are retained by arcels changes. If ownership of
Landowner: The Landowner is the own	Br of record of the real proper	enty located in LUNEUBURG Cod below in Table 1 and identified	1
Table 1.: Parcels aut	horized to receive biosolids,	water trealment residuals or o	other industrial studges
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
7077(1), P6	Tm 78(2), P1		Tax Faice ID
TM 77(1)P 6A	TM78(2), P2		
TM78(A), P14			
TM78(A), PI5			
TM78(A). P16			
 Additional parcels containing Land 	Application Sites are identified on	Supplement A (check if applicable)	The state of the s
	E Landowner is one of multip	er of the properties identified in the owners of the properties ide	nerein, entified herein
In the event that the Landov within 38 months of the late 1. Notify the purchase later than the date of	vner sells or transfers all or s st date of biosolids application or transferee of the application of the property transfer; and	and of the person was subject to	iosolids have been applied
The Landowner has no othe notify the Permittee immedia	r agreements for land applicately if conditions change sur	ation on the fields identified he ch that the fields are no longer valid or the information herein	
inspections on the land ident purpose of determining com	tified above, before, during opliance with regulatory required	ee to land apply residuals as s andowner also grants permis or after land application of perm rements applicable to such ap od processing waste Othe	sion for DEQ staff to conduct nitted residuals for the plication.
⊠ Yes □ No ⊠ Yes		Yes DNo RY	<u>er industrial sludges</u> ′es □ No
John + Ellen			The state of the s
Landowner - Printed Name, Title Permittee:	Signature	then facts	Mr. & Mrs. John Lacks 477 Lacks Dr. South Hill, VA 23970
otan prepared for each land app	lication field by a person certifie	ids and/or industrial residuals on its not to exceed the rates identified in accordance with §10.1-104.3	ed in the nutrient management I of the Code of Versions
	- President to the Telliopatiel S	r's designee of the proposed sche land. Notice shall include the sc	urce of residuals to be promised.
THE FOUNDATION OF THE PROPERTY OF A PARTY OF THE PROPERTY OF T	ssianing signatory authority to u	ne person signing for landowner a check this box if the landowner signs !	
Dr. 65	0	PO Pos 500 C - 1	
Permittee – Authorized Representa Printed Name	tive Signature	アロ BOX 362 Remin Mailing	i gton, V irginia <u>22734</u> Address

54- 9-14-2012

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Recyc Systems, Inc	County or City: LUNENBURG CO.
Landowner: John D. or ELLEN LACKS	
Landowiter. 1040 17, BR College	
Landowner Site Management Requirements:	
provide tion of higsplids, the components of piosolids and p	neet that includes information regarding regulations governing the land proper handling and land application of biosolids.
have also been expressly advised by the Permittee that the identified below must be complied with after biosolids have that Lorg repropsible for the implementation of these practical control of the practical control of th	he site management requirements and site access restrictions been applied on my property in order to protect public health, and tices.
agree to implement the following site management practi	ces at each site under my ownership following the land application of
	ed by the Permittee for the purpose of identifying my field as a the Permittee, until at least 30 days after land application at that site is
	· · · · · · · · · · · · · · · · · · ·
	for public exposure shall be restricted for at least one year following
application of biosolids. No biosolids ame same period of time unless adequate pro-	for public exposure shall be restricted for at least 30 days following any ended soil shall be excavated or removed from the site during this visions are made to prevent public exposure to soil, dusts or aerosols, opplied shall not be excepted for one year after application of biosolids are made to prevent public exposure or a lawn, unless
 Turt grown on land where biosuids are all when the harvested turt is placed on eithe otherwise specified by DEQ. 	er land with a high potential for public exposure or a lawn, unless
not be harvested for 14 months after the	Y YORAND ULLUD JAKU KUMILIKU DE LIMINESIEN INI EN HIOTKIO ALCOLOUS
application of biosolids when the biosolid monits prior to incorporation into the soil c. Food crops with harvested parts below the	is surface of the land shall not be harvested for 38 months when the
	the harvested for 30 days after the application of biosolids; days after the application of biosolids (60 days if fed to lactating cairy
Livestock Access Restrictions:	
Following biosolids application to pasture or f	nayland sites: azed for 30 days,
 b. Lactating dairy animals shall not be grazed. c. Other animals shall be restricted from grazed. 	ed for a minimum of 60 days. azing for 30 days;
5 Supplemental commercial fertilizer or manure apparations such that the total crop needs for nut developed by a person certified in accordance with	olications will be coordinated with the biosolids and industrial residuals rients are not exceeded as identified in the nutrient management plan in §10.1-104.2 of the Code of Virginia;
1. 2	ate cadmium, should not be grown on the Landowner's land for three istrial residuals which bear cadmium equal to or exceeding 0.45
John + Cleen Lacks	8-23-13
Landowner's Signature	Date
Farm Operator Signature	Mailing Address & Phone Number
Com Operator organization	

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

PART D-VI: LAND	APPLICATION A	GREEMENT - BI	OSOLIDS AND	INDUSTRIAL	RESIDUALS	
A This land application here as "Landowner", remains in effect until the Landowner in the cindividual parcels identionger be authorized to	n agreement is made and Recyc Systemit is terminated in we seen to far sale of or tified in this agreement.	de on 8-20-13 ems, Inc , referriting by either party ne or more parcels, tent changes those	between Ped to here as the or, with respect until ownership or	Permittee". The to those parcels of all parcels cha	THS referred to his agreement that are retained by	, of
Landowner: The Landowner is the the agricultural, silvicu attached as Exhibit A.	owner of record of	the real property loc	ated in Lives	SIDE Co Virgin	nia, which includes e tax map(s)	g.
Table 1.: Parcel	s authorized to rece	ive biosolids, water	Irealment residu	als or other indu	strial sludges	
Tax Parcel ID		arcel ID	Tax Parcel IC		Tax Parcel ID	
Tm 78(A). P7					10A 1 GIGGI ID	
TM 78(A), P 9	78-A	11C				_
·					<u> </u>	_
Additional parcels containing	g Land Application Sites	are identified on Supple	ment A (check if appl	icable)		
Check one:	The Landowner is The Landowner is	the sole owner of t	he properties ide	ntified herein		
2. Notify the Pern The Landowner has no notify the Permittee immore application or any princorrect.	haser or transferee late of the property nittee of the sale with other agreements mediately if conditionart of this agreement.	of the applicable put fransfer; and hin two weeks follow for land application ns change such tha it becomes invalid o	blic access and owing property transport the fields iden to the fields are not the information	crop manageme nsfer. tified herein, The longer available herein containe	e Landowner will e to the Permittee d becomes	
	ied above and in Ex identified above, be	hibit A. The Landor efore, during or after gulatory requiremen	wner also grants	permission for C of permitted res such application. Other industr	EQ staff to conduct iduals for the	
John I Lacks Landowner - Printed Name		Prunchace	k /	285 Bec Mailing Address	Ver Crack Ro R Phone Number 520	3 -£& #.: ; ; ;
Permittee:						23570
Recyc Systems, Inc., manner authorized by the plan prepared for each land	VPA Permit Regulation	on and in amounts not	d/or industrial resid	s identified in the I	wner's land in the	M () 1 / V
The Permittee agrees to n specifically prior to any pa	otify the Landowner o rticular application to t	r the Landowner's des the Landowner's land.	signee of the propo Notice shall include	sed schedule for ! de the source of re	and application and isiduals to be applied	
☐ I reviewed the documer document(s) available to D	nt(s) assigning signato	ry authority to the per	son signing for land	towner above 1 is	ill make a convict this	
Shu	160 5	Doub	PO Box 562	Remington, V	irginia 22734	
Permittee - Authorized Repr Printed N	resentative Sig	neture		Mailing Address	22.00	

Re / 9.14/2012

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

and	OWNER: JOHN I. + PENNY LACKS
	lowner Site Management Requirements:
the	Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land attention of biosolids.
have	also been expressly advised by the Permittee that the site management requirements and site access restrictions fied below must be compiled with after blosolids have been applied on my property in order to protect public health, and am responsible for the implementation of these practices.
agre	e to implement the following site management practices at each site under my ownership following the land application of lids at the site:
1,	are a second by the Permittee for the purpose of identifying my field as a
2.	Public Access
	a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
	 b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following an application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols: c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless
	otherwise specified by DEQ.
3.	Crop Restrictions: a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids. b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the
	application of biosolids when the biosolids remain on the land surface for a time bariod of four (4) or more
	c. Food crops with harvested parts below the surface of the land shall not be harvested for 36 months when the
	d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids; e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy
	animals).
4.	Livestock Access Restrictions: Following biosolids application to pasture or hayland sites:
	Meat producing livestock shall not be grazed for a minimum of 60 days. Lactating dairy animals shall not be grazed for a minimum of 60 days. All the producing for 30 days.
5.	Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia:
6 .	Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or Industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).
	Am A lech Pytous 820-13
	Landswiner's Signature
	Farm Operator Signature Mailing Address & Phone Number

Rev 9:14/2012 Page 2 of 2

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

and	OWNER: JOHN I. + PENNY LACKS
	lowner Site Management Requirements:
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have	also been expressly advised by the Permittee that the site management requirements and site access restrictions fied below must be compiled with after blosolids have been applied on my property in order to protect public health, and am responsible for the implementation of these practices.
agre	e to implement the following site management practices at each site under my ownership following the land application of lids at the site:
1,	are a second by the Permittee for the purpose of identifying my field as a
2.	Public Access
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	animals).
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6 .	Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or Industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).
	Am A lech Pytous 820-13
	Landswiner's Signature
	Farm Operator Signature Mailing Address & Phone Number

Rev 9:14/2012 Page 2 of 2

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

PART D-VI:	LAND	APPLICATION	AGREEMENT	- BIOSOLIDS	AND INDUSTRIAL	BECIBLIALO

remains in effect until it is the Landowner in the even individual parcels identified	erminated in writing by either tof a sale of one or more part in this agreement changes.	referred to here as the "Per- or party or, with respect to the croels, until ownership of all p those parcels for which own esiduals under this agreemen	mittee". This agreement ose parcels that are retained by parcels changes. If ownership of
Landowner: The Landowner is the owner the agricultural, silvicultural	er of record of the real areas		
attached as Exhibit A.	5.50 (50)(().1	ed below in fame I and Iden	uned on the tax map(s)
Table 1.: Parcels aut	horized to receive biosolids.	water treatment residuals or	other industrial sludges
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	<u>Tax Parcel</u> iD
TM 78(A), PIGA		<u> </u>	1 ax Faicei ID
TM 78(Z),P)			
TM 78(2),PZ			
The state of the s			
		1	
☐ Additional parcels containing Land	Application Sites are identified on	Supplement A (check if applicable)	
Check one: 🗹 The	Landowner is the sole own	er of the properties identified the owners of the properties in	l baroin
Notify the purchase later than the date of 2. Notify the Permittee The Landowner has no othe notify the Permittee immedia	or or transferee of the applicant of the property transfer; and of the sale within two weeks agreements for land applicately if conditions change surely.	ble public access and area a	nanagement restrictions no herein. The Landowner will
inspections on the land ident purpose of determining compurpose of determining computations B biosofids Water ☑ Yes □ No ☑ Yes	treatment residuals	or after land application of per rements applicable to such a od processing waste Ot	ssion for DEQ staff to conduct
Landowner - Frinted Name, Title	Signature	Méili	ng Address & Phone Number
Permittee: Recyc Systems, Inc., the Pe	ermittee, agrees to apply biosof		
clan prepared for each land app	lication field by a person certifie	id in accordance with \$10.1-104	ified in the nutrient managemen: 2 of the Code of Virginia
specifically prior to any particular	le Landowner or the Landowner's application to the Landowner's	r's designee of the proposed so cland. Notice shall include the s	hedule for land application and source of residuals to be applied.
☐ I reviewed the document(s) as Hocument(s) available to DEQ fo	Cinning company authority is a		
Sta. h.			
Permittee - Authorized Representa	live Signature	PO Box 562 Rem	ington, Virginia 22734
Prierad Mana	live Signature	Mailin	g Address

Re. 9 14/2013

Printed Name

Permittee:	Recyc Syste	ns. Inc	County or City:	-UNENBURG (<u>c.</u>
-		10045			
Landowner		<u></u>	•	· ' _	
		nent Requirements			
application of	biosolids, the comp	onents of biosolids and	btobet usuging still raun	ation regarding regulations application of biosolids.	
identified bek that I am rest	ow must be complied consible for the impl	d with after biosolids nat ementation of these pra	ctices.	uirements and site access operty in order to protect pr	
biosolids at the	ne site:	and the second second		ny ownership following the	
! Notific blosofi compl	ids land application	ot remove any signs pos site, unless requested b	sted by the Permittee for t y the Permittee, until at le	he purpose of identifying mast 30 days after land appl	ny field as a lication at that site is
a.	any application of Public access to application of bio same period of the	of biosolids. Iand with a low potential isolids. No biosolids are ime unless adequate properties are a where biosolids are a ted turf is placed on eith	I for public exposure shall nended soil shall be excav pyisions are made to prey	Il be restricted for at least of be restricted for at least 30 ated or removed from the ent public exposure to soil, sted for one year after applial for public exposure or a	O days following any site during this dusts or aerosols, lication of biosolids
a b c	Restrictions: Food crops with not be harvested Food crops with application of bit months prior to Food crops with biosolids remain	harvested parts that tout if or 14 months after the harvested parts below to solids when the biosolid harvested parts below to the land surface for the land	application of biosolids. he surface of the land shads remain on the land suril, he surface of the land shad a time period of less than of he have sted for 30 days	all not be harvested for 20 race for a time period of for a time period of for feur (4) months prior to increase the application of bin of biosolids (60 days if fer	months after the or (4) or more months when the corporation.
f a t	 Mest producing Laclating dairy 	ipplication to pasture or	azed for a minimum of 60 d	ays.	
applid devel	lemental commercia cations such that the loped by a person c	al fertilizer or manure ap e total crop needs for nu ertified in accordance w	plications will be coordina trients are not exceeded a ith §10.1-104.2 of the Coo		management plan
years	cco, because it has so following the applied ds/acre (0.5 kilogral www.communications)	cation of biosolids or Ind	late cadmium, should not ustrial residuals which be	be grown on the Landowne ar cadmium equal to or exc Au	er's land for three seeding 0.45
		:		Colling Orderocc & Change Alicense	nar.
Farm	n Operator Signature			failing Address & Phone Numb	JG1

John D Lacks Site Lunenburg County

Owner(s)

Tax Map and Parcel

John D Lacks or Ellen D. Lacks 477 Lacks Dr. South Hill, Va. 23970 (434) 774 – 8747

John Irvin Lacks or Penny Lacks 354 Beaver Creek Rd. South Hill, Va. 23970

Danny R lacks 173 Lacks Dr. South Hill, Va. 23970 (434) 676 – 1274

(434) 676 - 2607

Parcels – (1) 6, 6A/ (A) 14–16, (2) 1, 2

TM - 77/78

TM - 78

Parcels - (A) 16A

Parcels - (A) 7, 9

TM - 78

Landowner Coordination Form

This form is used by the Permittee to identify properties (tax parcels) that are authorized to receive biosolids and/or industrial residuals, and each of the legal landowners of those tax parcels. A Land Application Agreement-Biosolids and Industrial Residuals from original signature must be attached for each legal landowner identified below prior to land application at the identified parcels.

Permittee: <u>Recyc Systems, In</u>	Site Name: <u>John D. Lacks</u>				
ounty or City: Lunenburg Co.	<u> </u>				
lease Print	Signature not required on this page				
Tax Parcel ID(s)	<u>Landowners (s)</u>				
TM77(1),P6 TM78(A),P14,15,16/TM78(2),P1,2	John D. Lacks or Ellen D. Lacks				
TM78(A),P7,9	John I. Lacks or Penny D. Lacks				
TM78(A),P16A TM78(Z).P1,Z	Danny R. Lacks				
TM77(I),P GA	John D. Lacks				
•					
•					
·					

FARM DATA SHEET

SITE NAME:	John D Laxdks Sitte	COUNTY:	Lunenburg
OWNER:	See Attached	OPERATION R	John D Lawks
OWNERS	See Attached	OPERATIONS	477 Lacks Dr.
ADDRESSS		ADDRESSS	South Hill, Wa. 2239770
OWNER'S TELEPPIONINE	See Attached	OPERATOR'S TELEPHOME	(434) 676-272757
GENERAL FARM Type:	Hay/ Pasture	CELLLIPHODNE	(434) 774-87847
# CANTILLEE	210 head	EMAIL:	
LAGOOON or SLURRRYY	None	LATIMUDE	36° 48′ 31N N
TOPO QUAD:	North View	LONGITUDE	78° 1112Q0′VW
COMMENTS:			
		,	
			
· · · · · · · · · · · · · · · · · · ·			·
	,		

RECYC SYSTEMS, INC FIELD DATA SHEET

Field	Gross	Environi	Environmentally Sensitive Soils				Tax	FSA
Identification	Acres	Water Table	Bed Rock/Shallow	Surf/Leach	Freq Flood	Hydro Map	Map #	Tract #
LUJDL 1	22.2	-	2C,2D	-		CM08	TM78A,P6A	T639 Fields 12,14
LUJDL 2	11.3	-	-	-	_	CM08	TM78A,P6A	T639 Field 13
LUJDL 3	24.7	-		-	· -	CM08	TM78A,P6,6A	T639 Field 17
LUJDL 4	37.7	-	2C,2D,2E	-	<u>_</u>	CM08	TM78A,P6,6A	T639 Field 15
LUJDL 5	18 .9	-	2D,2E	-	<u>.</u>	CM08	TM78A,P6,6A	T639 Field 16
LUJDL 6	7.6	-	20D	-	<u>-</u>	СМ09	TM78A,P9	T828 Fields 2,5
LUJDL 7	7.8	13B,10C2(Dec-May)	-		-	СМ09	TM78A,P9	T828 Field 3
LUJDL 8	30.9	13B,10C2(Dec-May)		-	<u>-</u>	СМ09	TM78A,P7,9	T828 Field 4
LUJDL 9	8.8	-				CM09	TM78A,P9	T828 Fields 1,6
LUJDL 10	15.9.	_	· -	-	-	CM09	TM78A,P14	T848 Field 7
LUJDL 11	15.7	6(Nov-Apr)	_	<u>-</u>	6(Jan-Dec)	CM09	TM78A,P14	T848 Field 1
LUJDL 12	21.8	-	_	-		СМ09	TM78A,P14	T848 Field 3
	1				·			<u> </u>

RECYC SYSTEMS, INC FIELD DATA SHEET

Field	Gross	Envir	onmentally Sen	sittive Soills		Linda	Tax	FSA
Identification	Acres	Water Taible	Bed Rock/Shallow	Surf#Leeach	Freq Flood	Hydro Map	Map#	Tract#
LUJDL 13	10.7	6(Nov-Apr)	<u>-</u>	_	6(Jan_Dec)	СМ09	TM78A,P14	T848 Fields 2,4
LUJDL 14	9.4	6(Nov-Apr)	2C,2D	_	7(Jan-Dec)	СМ09	TM78A,P14	T848 Finellals 5,6,8
LUJDL 15	19.3	<u> </u>	-	-	-	СМ09	TM78A,P16	T726 Field 5
LUJDL 16	13.2	_	2D		<u>.</u>	СМ09	TM78A,P16	T726 Fiellits 3,6
LUJDL 17	9.8	-		-		СМФЭ	TM78A,P15,16	T 726/768 Filellts#//13
LUJDL 18	11.6	-	2C,2E	-	-	СМФ9	TM78A,P15,116	T768 Fields 14,27
LUJDL 19	13.6	<u>.</u> .	-	-	-	CM09	TM78A,P16, 16A	T726 Fields 1,2,8,9
LUJDL 20	30.7		-	-	<u>-</u>	CM09	TM78.P16, 16A	T726/76 8 Fields 2,7,9/2
LUJDL 21	27.2	-	-	<u>-</u>	<u>.</u>	CM09	TM78A,P15,16	T768 Fields 15,116,20028
LUJDL 22	42.4	-	-	-	<u>-</u>	CM09	TM78(2),P1,2	T768 Fields 1,2,3,5,7,8,24
				í				

RECYC SYSTEMS, INC FIELD DATA SHEET

Field	Gross	Enviro	onmentally Ser	sitive Soils			Tax	FSA
Identification	Acres	Water Table	Bed Rock/Shallow	Surf/Leach	Freq Flood	Hydro Map	Map #	Tract#
LUJDL 23	22.4	-	<u>-</u>	_	_	СМ09	TM78(2),P1,2	T768 Fields 4,6,10
LUJDL 24	16.4		-	-	<u>-</u>	CM09	TM78(2),P1	T768 Fields 8,9,11,12
LUJDL 25	33.3	6(Nov-Apr)	2D	-	6(Jan-Dec)	CM09	TM78A,P16 TM78(2),P2	T768 Fields 23,25
LUJDL 26	14.4	6(Nov-Apr)	-	-	6(Jan-Dec)	CM09	TM78A,P15 TM78(2),P2	T768 Field 21
LUJDL 27	38.5	-	2D	-	-	СМ09	TM78(2),P1,2	T768 Field 18
								
		<u> </u>						
		 		-				
TOTAL ACRES IN SITE	536.2							

Page 1 of 14

Report Number: 12-150-0505

Account Number: 70594



A&L Eastern Laboratories

7621 Whitepine Road Richmond, Virginia 23237 (804) 743-8401 Fax (804) 271-6446

Send To: RECYC SYSTEMS INC

SUSAN TRUMBO 8455 WHITESHOP RD CULPEPER VA 22701 Grower:

Submitted By: DREW REYNOLDS

Farm ID:

JOHN D LACKS/LUSDL LUNENBURG

SOIL ANALYSIS REPORT

Analytical Method(s):

Mehlich 3

Date Received: 05/29/2012

Date Of Analysis: 05/30/2012

Date Of Report: 05/31/2012

Sample ID	1.4	Or	ganic Mo	atter		Phos	phorus	<u></u>	. Pota	mulaa	Mag	nesium	Cat	lcium	So	dium		эĦ	Acidity	C.E.C
Field ID	Lab Number	%	Rate	ENR ibs/A	Meh ppm	lich 3 Rate	Res ppm	serve Rate	bbiii	K ; Rate		Mg Rate	ppm	Ca Rate	ppm	Na Rate	Soli pH	Buffer Index	H mea/100g	meq/100g
1	02585	4.2	М	124	78	Н	!		158	Н	183	н	852	M	-	· ·	6,1	6.83	1.0	7.2
2	02586	1.7	L	78	78	Н			90	М	89	Н	434	. M			5.8	6:86	0.7	3,9
3	02587	2,2	L	90	27	L			109	H	65	Н	331	. М			5.8	6.87	0.6	3.1
4A	02588	2.5	L	95	37	М			71	М	59	M	398	М			5.4	6.82	1.1	3.7
4B	02589	3.7	М	114	90	Н	·		92	, M	92	М	1218	Н			6.8	6.91	0.2	7.3

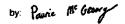
										J					<u> </u>									
61-15		Perce	nt Base	Saturati	on	Niti	rate	Sı	ılfur	Zi	nc	Mang	anese.	ir	on	Сор	per	Во	rón	Solubi	e Salts	Chic	oride	Aluminum
Sample ID Field ID	к %	Mg %	Ca %	Na %	н %	ppm)'N Rate	ppm	S Rate	ppm 2	n Rate	ppm Ppm	In Rate	ppm	e Rate	ppm C		· ppm	Rate	ma/cm		ppm	i Rate	Al ppm
1	5.6	21.2	59.2		13.7														-					
2	5.9	19:0	55.66		18.9																			
3	9.00	17:5	53.4		18.8	-									 -									
4A	4.9	1333	53.8		28.4								-				-		_		-			
4B	3.2	10.5	83.4		2.9												-		· · ·					

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Sotuble-Salts ms/cm x 640 = ppm.

This report applies to sample(s) lested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: A&L Eastern Laboratories, Inc.



Page 2 of 14

Report Number: 12-150-0505 **Account Number: 70594**



A&L Eastern Laboratories 7621 Whitepine Road Richmond, Virginia 23237 (804) 743-8401 Fex (804) 271-6445

Send To: RECYC SYSTEMS INC.

SUSAN TRUMBO 8455 WHITESHOP RD **CULPEPER VA 22701**

Grower:

Submitted By: DREW REYNOLDS

Farm ID:

JOHN D LACKS/LUSDL **LUNENBURG**

Date Received: 05/29/2012

Date Of Report: 05/31/2012 SOL

SOIL FERTILITY RECOMMENDATIONS

	Bate of Nepoliti 03/31/2012 301			(A (E A A A A A	I T P C I MINITI I II		0110						
Sample ID Field ID	Intended Crop	Yield Goal	Lime Toilis/A	Nitrogen N Ib/A	Phosphate P ₂ O ₅ Ib/A	Potash K _ž O Ib/A	Magnesium Mg Ib/A	Sulfur S Ib/A	Zinc Zn lb/A	Manganese Mn Ib/A	Iron Fe Ib/A	Copper Cu Ib/A	Boron B Ib/A
1	Adjust pH to 6.8	0	1.3				0						
2	Adjust pH to 6.8	0	1.5				0						
3	Adjust pH to 6.8	0	1.5				15						
4A	Adjust pH to 6.8	0	1.8				21						
4B	Adjust pH to 6.8	0	0.0				0			-			

Comments:

Sample(s) 3, 4A:

If dolomitic lime is not used, apply required magnesium with magnesium oxide. Epsom Salts, K-Mag or Sul-PO-Mag.

Sample(s) 4A:

Apply dolomitic lime to raise pH and improve the magnesium level.

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

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Paurie Mc George

Page 3 of 14

Report Number: 12-150-0505 Account Number: 70594 **PAL**

A&L Eastern Laboratories

7621 Whitepine Road Richmond, Virginia 23237 (804) 743-8401 Fax (804) 271-6446

Send To: RECYC SYSTEMS INC

SUSAN TRUMBO 8455 WHITESHOP RD CULPEPER VA 22701 Grower:

Submitted By: DREW REYNOLDS

Farm ID:

JOHN D LACKS/LUSDL LUNENBURG

SOIL ANALYSIS REPORT

Analytical Method(s):

Mehlich 3

Date Received: 05/29/2012

Date Of Analysis: 05/30/2012

Date Of Report: 05/31/2012

Sample ID		Ör	ganic Ma	tter		Phos	pnorus		Pota	ssium	Mag	nesium	Ca	lcium	Sodium		рН	Acidity	C.E.C
Field ID	Lab Number	%	Rateib	ENR 265AA	Mehli ppm Rat		Reserv ppm	e Rate	ppm	K Rate		Mg Rate	ppm	Ca Rate	Na ppm Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
5	02590	2.5	L 9	94	27 ∟	L	-		93	Н	92	Н	447	М		5.8	6.85	0.8	4:0.
6	02591	1.7	L 7	77	27 ∟	L			30	VL	135	Н	515	М		5.8	6.84	0.9	4.7
7	025@2	2.1	L 8	85	50 M	М			27 .	VL	117	Н	559	М		5.9	6:85	0.8	4,6
8A	02593	1.6	L 7	73	90 H	Н			73	L	134	Н	573	L		5.3	6.74	1.9	6.0
88 ,	02594	1.4	L 6	69	120 ∨	VH			100	М	129	н	585	L		5,2	6.71	2.2	6.5

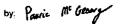
Ramala ID		Perce	nt Base	Saturat	on	Nitrate	Sul	lfur	Zinc	Man	ganese	· Ire	on;	Сор	per.	Во	ron	Soluble	Salts	Chic	oride	Aluminum
Sample ID Field ID	₩ %	Mg %	Ca %	Na • %	H %	NO ₃ N ppm Rat Rate	ppm-		Zn ppm Rai		Vin Rate		e Rate	Ci ppm		ppm	3 Rate	SS ms/cm		ppm	I Rate	Al ppm
5	6.0	19.2	55.9		19.0																	
6	1.6	23.9	54.8		18.9																	<u> </u>
7	1.5	21.2	60.8		17.3														-			
8A	3.1	18.6	47.8		31.3					,												•
8B	3.9	16.5	450		33.9					Ī	_											

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High), ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Sotuble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after festing:

Analysis prepared by: A&L Eastern Laboratories, Inc.



Page 4 of 14

Report Number: 12-150-0505

Account Number: 70594



A&L Eastern Laboratories

7621 Whitepine Road Richmond, Virginia 23237 (804) 743-9401 Fax (804) 271-6446

Send To: RECYC SYSTEMS INC

SUSAN TRUMBO 8455 WHITESHOP RD Grower: JOHN D LACKS/LUSDL

LUNENBURG

Submitted By: DREW REYNOLDS

Farm ID:

CULPEPER VA 22701

Date Received: 05/29/2012

Date Of Report: 05/31/2012

SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N Ib/A	Phosphate PzOg Ib/A	Potash K ₂ O Ib/A	Magnesium Mg Ib/A	Sülfur S Ib/A	Zinc Zn (b/A	Mänganese Mn Ib/A	Iron Fe Ib/A	Copper Cu Ib/A	Boron B Ib/A
5	Adjust pH to 6.6	0	1.5	-			0						
6	Adjust pH to 6.8	0	1.5			· ·	0						
7	Adjust pH to 6:8	0	1.5				0				·		
8A	Adjust pH to 6.8	0	2:3		-		0				 .		
88	Adjust pH to 6.8	0	2:3				0						

Comments:

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

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Page 5 of 14

Report Number: 12-150-0505

Account Number: 70594



A&L Eastem Laboratories

7621 Whitepine Road Richmond, Virginia 23237 (804) 743-8401 Fax (804) 271-6446

Send To: RECYC SYSTEMS INC

SUSAN TRUMBO 8455 WHITESHOP RD **CULPEPER VA 22701**

Grower:

Submitted By: DREW REYNOLDS

Farm ID:

JOHN D LACKS/LUSDL

LUNENBURG-

SOIL ANALYSIS REPORT

Analytical Method(s):

Mehlich 3

Date Received: 05/29/2012

Date Of Analysis: 05/30/2012

Date Of Report: 05/31/2012

Parrie ID		Or	ganic Mo	atter		Phos	phorus		Pot	assium	Mag	nesium	Ca	lcium	Soc	llum	6	 	Acidity	C.E.C
Sample ID Field ID	Lab Number	· %	Rate	ENR Ibs/A		illich 36 at Rate :		serve Rate	ppm	K Rate		Mg Rate	1	Ca Rate	ppm	la Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
9	02595	1.3	L	71	113	Н			33	VĹ	80	Н	311	L			5.4	6.84	0.9	3.2
10	02596	3.4	М	106	133	VH			277	VH	242	Н	880	М			6.1	6.82	1.1	8:3
11	02597	2.8	М	95	66	н			163	Н	198	Н	962	М		٨.	6.4	6.86	0.7	7.6
12	02598	3.4	М	105	144	VH	-	-	187	VH	231	Н	1130	М			6.3	6.83	1.0	49 .0
13	02599	2.5	L	91	43	М		•	74	· L	176	H	829	М		-	6.4	6.87	0.6	6.4

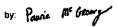
	<u> </u>	Perce	nt Base	Saturati	on	Nitr	ate	Su	lfur	Zi	nc	Mana	anese	Ire	on	Сор	Der	Во	ron-	Soluble	Salts	Chlo	ride	Aluminum
Sample ID Field ID	К %	Mg /	Ca %	Na %	H %	NO ppm		;	S		'n	N		F	e	С	u u	ppm	3	SS ms/cm	;	С		Al
9	2.6	20.8	48.6		28.5					-			-		·					,	-	<u> </u>		
10	8.6	24.3	53.0	· · ·	13.7			_										·						
11	5.5	21.7	63.3		8.9								·			<u> </u>								
12	5.3	21.4	62.8		10.6		;;; <u> </u>					-												
13	3.0	22.9	64.8		8.9																			-

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meg/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by. A&I. Eastern Laboratories, Inc.



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Report Number: 12-150-0505 **Account Number: 70594**

A&L Eastern Laboratories 7621 Whitepine Road Richmond, Virginia 23237 (604) 743-9401 Fax (604) 271-6446

JOHN D LACKS/LUSDL

LUNENBURG

Send To: RECYC SYSTEMS INC

SUSAN TRUMBO 8455 WHITESHOP RD **CULPEPER VA 22701**

Grower:

Submitted By: DREW REYNOLDS

Farm ID:

Date Received: 05/29/2012

Date Of Report: 05/31/2012

SOIL FERTILITY RECOMMENDATIONS

Sample IDD Field IDD	Intended Corpp	Yield Goal	Lime Tons/A	Nitrogen N Ib/A	Phosphate P ₂ O ₉ Ib/A	Potash K _ž O Ib/A	Magnesium Mg Ib/A	Sulfur S Ib/A	Zinc Zn lb/A	Manganese Min Ib/A	Iron Fe Ib/A	Copper Cu lb/A	Boron B Ib/A
9	Adjust phHo 608.8	0	1.8				0	· -	-				
10	Adjust pHto 6o86.8	0	1.3				0						
11	Adjust pH to:6.86.8	0	1.0		-		0						
12	Adjust phHo 6586.8	0	1.0			<u> </u>	0						
13	Adjust phHto 6o86.6	0	1.0				0		-				

Comments:

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

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Report Number: 12-150-0505

Account Number: 70594



A&L Eastern Laboratories

7621 Whitepine Road Richmond, Virginia 23237 (804) 743-9401 Fax (804) 271-6446

Send To: RECYC SYSTEMS INC

SUSAN TRUMBO 8455 WHITESHOP RD CULPEPER VA 22701 Grower:

Submitted By: DREW REYNOLDS

Farm ID:

JOHN D LACKS/LUSDL LUNENBURG

SOIL ANALYSIS REPORT

Analytical Method(s):

Mehlich 3

Date Received: 05/29/2012

Date Of Analysis: 05/30/2012

Date Of Report: 05/31/2012

Sample ID		Or	ganic M	atter		Phos	phorus		Pota	ssium	Mag	nesium	Cal	lcium	Sodi	iüm	ı	Н	Acidity	C.E.C
Field ID	Lab Number	%	Rate	ENR Ibs/A	P-	lich 3 at Rate		serve Rate	ppm	K Rate	1	Mg. Rate	ppm	Ca Rate	Ppm Na	Rate	Soil pH	Buffer Index	H meq/1 00 g	meq/1 00 g
14	02600	1.9	L	81	63	H			57	L	137	н	651	М			6.4	6.89	0.4	5.0
15	02601	3.5	М	112	78	Н	1		57	L	137	Н	659	M			5.7	6.81	1.2	5.8
16	02602	1.6	L	78	37	М			52	VL	133	Н	752	M			6.2	6.86	0.7	5.7
17	02603	3.1	М	106	113	Н			78	М	115	H	494	M			6.3	6.89	0.4	4.1
18	02605	3.7	М	114	60	Н			148	Н	122	М	951	М			6.0	6.82	1.1	7.3

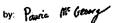
C1- ID		Perce	nt Base	Saturati	оп	Nitra	ate	Su	lfur	Zi	nc	Mang	anese	lr	гоп	Сор	per	Во	ron	Soluble	Salta	Chlo	ride	Aluminum
Sample ID Field ID	. К %	Mg %	Ca %	Na %	н %	NO.	,	ppm	S Rate	ppm Z	n Rate	ppm	In Rate		Fe Rate	ppm C		ppm	B Rate	S: ms/cm		ppm	i Rate	Al ppm
14	2.9	22.8	65.1		8.9						-													
15	2.5	19.7	56.8		21.1						<u>. </u>													
16	2.3	19.4	66.0		12.1								,				<u> </u>	<u> -</u>						• •
17	4.9	23.4	60.2		10.4										•									
18	5.2	13.9	65.1		15.3		•													<u> </u>				

Values on this report represent the plant available nutrients in the soil. Reting after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: A&L Eastern Laboratories; Inc.



Page 8 of 14

Report Number: 12-150-0505

Account Number: 70594



A&L Eastern Laboratories
7621 Whitepine Road Richmond, Virginia 23237 (804) 743-8401 Fex (804) 271-6446

Send To: RECYC SYSTEMS INC

SUSAN TRUMBO 8455 WHITESHOP RD CULPEPER VA 22701 Grower:

Submitted By: DREW REYNOLDS

Farm ID:

JOHN D LACKS/LUSDL LUNENBURG

Date Received: 05/29/2012

Date Of Report: 05/31/2012

SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen. N Ib/A	Phosphate P _z O _s Ib/A	Potash K _z O Ib/A	Magnesium Mg Ib/A	Sulfur S Ib/A	Zinc Zn Ib/A	Manganese Mn lb/A	Iron Fe Ib/A	Copper Cu lb/A	Boron B Ib/A
14	Adjust pH to 6.8	0	1,0				0	· · ·	<u> </u>				
15	Adjust pH to 6.8	0	1.5				0						
16	Adjust pH to 6.8	0	1.3				0						
17	Adjust pH to 6.6	0	1.0				0						
18	Adjust pH to 6.8	0	1.3				0						

Comments:

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

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Pauric Mc George

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Report Number: 12-150-0505

Account Number: 70594



A&L Eastern Laboratories

7621 Whitepine Road Richmond, Virginia 23237 (804) 743-8401 Fax (804) 271-6446

Send To: RECYC SYSTEMS INC

SUSAN TRUMBO 8455 WHITESHOP RD **CULPEPER VA 22701**

Grower:

Submitted By: DREW REYNOLDS

Farm ID:

JOHN D LACKS/LUSDL

LUNENBURG

SOIL ANALYSIS REPORT

Analytical Method(s):

Mehlich 3

Date Received: 05/29/2012

Date Of Analysis: 05/30/2012

Date Of Papart: 05/21/2012

Sample ID	Lab	Ör	ganic Ma	tter		Phos	phorus		Pota	ssium	Mag	nesium	Cai	cium	Sodium		pΗ	Acidity	C.E.C
Field ID	Number	%	Rate Ib	ENR Ibs	Mehlic . ppm Rat			erve Rate		K Rate		Mg Rate	ppm	Ca Rate	Na ppm Ra	Soil te pH	Buffer Index	H meq/100g	meq/100g
19	02606	2.4	L 8	84	113 H	Н			260	VH	305	Н	1061	М		6.3	6.83	1.0	9.5
20A	02607	3.9	M 12	120	71 H	Н			72	L	123	Н	642	М		5.6	6.80	1.3	5.8
20B	02608	2.5	L 9	93	25 ∟	L			84	M	105	Н	527	M		5.8	6.84	0.9	4.6
21A	02609	1.7	L 7	79	15 ∟	L			65	L	50	М	428	M		6.1	6.89	0.4	3.2
22A	026110	2.9	M 10	103	66 H	Н			131	Н	115	Н	422	M		6.4	6.90	0.3	3.7

		Perce	nt Base	Saturati	on	Nitrate	Su	lfur	Ži	nc	Mano	апеве	1,	ron	Con	per	Bo	ron	Soluble Salts	Chlo	rido	Aluminum
Sample ID Field ID	К %	Mg %	Ca %	Na %	H %	NO ₃ N ppm RatRate	: ;	S		n	N	In Rate	ļ	Fe	С	u		3	SS ms/cm Rate	C		Al ppm
19	7.0	26:8	55.8	,	10.6								_			<u> </u>					٠	
20A	3.2	17.7	55.3		23.2																	<u> </u>
20B	4.7	19.0	57.3		19.0			··· <u> </u>													••	
21A	5.2	13.0	66.9		13.5		-	•								.::			<u> </u>			
22A	9.1	25:9	57.0		9.0																	·

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meg/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A. Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: A&L Eastern Laboratories, Inc.

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Report Number: 12-150-0505

Account Number: 70594



A&L Eastern Laboratories
7621 Whitepine Road Richmond, Virginia 23237 (804) 743-9401 Fax (804) 271-5446

Send To: RECYC SYSTEMS INC

SUSAN TRUMBO 8455 WHITESHOP RD CULPEPER VA 22701 Grower:

JOHN D LACKS/LUSDL

LUNENBURG

Submitted By: DREW REYNOLDS

Farm ID:

Date Received: 05/29/2012

Date Of Report: 0553122012

SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N Ib/A	Phosphate P ₂ O ₅ Ib/A	Potash K ₂ O Ib/A	Magnesium Mg Ib/A	Sulfur S lb/A	Zinc Zn lb/A	Manganese Mn Ib/A	Iron Fe Ib/A	Copper Cu lb/A	Boron B Ib/A
19	Adjust pH to 6.8	0	1.0				0						
20A	Adjust pH to 6.8	0	2.0				0						
20B	Adjust pH to 6.8	0	1.5				0	-					i
21A	Adjust pH to 6.8	0	1.3				30						
22A	Adjust pH to 6.8	0	1.0				0						

Comments:

Sample(s) 21A:

Apply dolomitic lime to raise pH and improve the magnesium level.

If dolomitic lime is not used, apply required magnesium with magnesium oxide. Epsom Salts, K-Mag or Sut-PO-Mag.

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

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ouric Mc George

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Report Number: 12-150-0505

Account Number: 70594



A&L Eastern Laboratories

7621 Whitepine Road Richmond, Virginia 23237 (804) 743-8401 Fax (804) 271-6466

Send To: RECYC SYSTEMS INC

SUSAN TRUMBO 8455 WHITESHOP RD CULPEPER VA 22701 Grower:

Submitted By: DREW REYNOLDS

Farm ID:

JOHN D LACKS/LUSDL LUNENBURG

SOIL ANALYSIS REPORT

Analytical Method(s):

Mehlich 3

Date Received: 05/29/2012

Date Of Analysis: 05/30/2012

Date Of Report: 05/31/2012

C		Or	ganic Ma	tter		Phos	phorus		Pota	ssium	Mag	nesium	Ca	lclum	Sodium		pН	Acidity	C.E.C
Sample ID Field ID	Lab Number	‰	Rate	ENR Ibs/A		nich 3 at Rate		serve Rate	ppm	K Rate	ppm	Mg Rate		Ca Rate	Na ppm Ra	Sail te pH	Buffer Index	H meq/100g	meq/100g
22B	02611	2.5	L	93	48	М			102	М	149	Н	593	М		6.2	6.87	0.6	5.1
23	02612	2.2	L	87	6 5	Н			105	М	151	н	622	. М	<u> </u>	6.4	6.88	0.5	5.1
24	02613	1.9	L	81	113	Н			90	М	153	Н	655	М		6.7	6.91	0.2	5.0
25A	02614	2.0	L	83	35	М			121	Н	123	Н	582	М		6.5	6.90	0.3	4.6
25B	02615	2.0	L	84	29	L			101	Н	116	Н	545	М		6.4	6.89	0.4	4.3

	ľ	Perce	nt Base	Saturati	on .	Nite	ate	Su	lfur	Zi	nc	Mang	anese	İr	on	Cop	per	Во	ron	Solubi	e Salts	Chlo	oride	Atuminum
Sample ID Field ID	К %	Mg %	Ca %	Na %	H %	NO ppm	N Rate	ppm	S Rate	ppm Z	n Rate	bb₩. M		ppm	Fe Rate	Ppm	_	ppm	3 Rate	s ms/cm			i Rate	Al ppm
22B	5.1	24.3	58.1		12.1										-									
23	5.3	24.7	61.0		8.9																			
24	4.6	25.5	65.5		4.5															, .	_			
25A	6.7	22.3	63.3		7.4		_																	
25B	6.0	22.5	63.4		9.0				_										· ·					

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High), ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: A&L Eastern Laboratories, Inc.

by: Pauric Mª George

Page 12 of 14

Report Number: 12-150-0505 Account Number: 70594



A&L Eastern Laboratories
7621 Whitepine Road Richmond, Virginia 23237 (804) 743-8401 Fax [804] 271-6446

Send To: RECYC SYSTEMS INC

SUSAN TRUMBO 8455 WHITESHOP RD CULPEPER VA 22701 Grower:

Submitted By: DREW REYNOLDS

Farm ID:

JOHN D LACKS/LUSDL LUNENBURG

Date Received: 05/29/2012

Date Of Report: 05/31/2012

SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N Ib/A	Phosphate P20 ₅ lb/A	Potash K _k O Ib/A	Magnesium Mg Ib/A	Sulfur S Ib/A	Zinc Zn lb/A	Manganese Mn lb/A	Iron Fe Ib/A	Copper Cu Ib/A	Boron B Ib/A
22B	Adjust pH to 6:8	0	1.3		_		0				· <u>·</u>		
23	Adjust pH to 6.8	0	1.0			-	0				<u> </u>		
24	Adjust pH to 6:8	0	1.0		-		0						
25A	Adjust pH to 6.8	0	1.0				0		·	·			
25B	Adjust pH to 6.8	0	1.0				0					<u> </u>	

Comments:

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

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Page 13 of 14

Report Number: 12-150-0505

Account Number: 70594



A&L Eastern Laboratories

7621 Whitepine Road Richmond, Virginia 23237 [804] 743-8401 Fax [804] 271-6446

Send To: RECYC SYSTEMS INC

SUSAN TRUMBO 8455 WHITESHOP RD **CULPEPER VA 22701**

Grower:

Submitted By: DREW REYNOLDS

Farm ID:

JOHN D LACKS/LUSDL

LUNENBURG

SOIL ANALYSIS REPORT

Analytical Method(s):

Mehlich 3

Date Received: 05/29/2012

Date Of Analysis: 05/30/2012

Date Of Report: 05/31/2012

Sample ID		, C G y	ganic Ma	itter		Phos	phorus		Pota	tssium	Mag	nesium	Cal	cium	Soc	ium	·F	Н	Acidity	C.E,C
Field ID O	Lab • Number	%	Rate	ENR / Ibs/A	Mel ppm	nlich 3 Rate	Re:	erve Rate	bbw	K Rate	ppm	Mg Rate	ppm	Ca Rate	•	la Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
26	02616	2.1	L 8	85	35	М			116	. Н	130	H	626	M			6.4	6.89	0.4	5.0
27 A	02617	1.9	L 8	81	47	М			63	L	130	Н	555	М			6.2	6.87	0.6	4.6
27B	02618	2.0	L .8	84	37	М			73	М	123	Н	545	M			6.3	6.88	0.5	4.4
218	02619	2.4	L 9	93	18	L			66	M	52	M	358	М			5.4	6.84	0.9	3.3

		Parence	nt Base	Saturati	on_	Nite	rate	Sı	lfur	Zìı	nc	Mang	anese	Ir	'n	Сор	per	Во	ron	Soluble	Salts	Chlo	ride	Aluminum
Sample ID Field ID	. К %	Mg %	.cCa %	Na %	H %	PPm	3	ppm	S Rate	ppm		ppm M	In Rate	ppm F	Fe Rate	C: ppm		ppm	3 Rate	SS ms/cm		ppm	-	Al ppm
26	5.9	21.7	62.6		8.8				<u> </u>						-		·.	•••		_				
27A	3.5	23.6	60.3		12.1			<u> </u>																
27B	4.3	23.3	61.9	_	10.6										•					<u> </u>	·			
21B	5.1	13.1	54.2		26.6	 	-																	

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing,

Analysis prepared by: A&L Eastern Laboratories, Inc.

Page 14 of 14

Report Number: 12-150-0505 Account Number: 70594



A&L Eastern Laboratories
7621 Whitepine Road Richmond, Virginie 23237 (804) 743-8401 Fax (804) 271-6446

Send To: RECYC SYSTEMS INC

SUSAN TRUMBO 8455 WHITESHOP RD CULPEPER VA 22701 Grower:

Submitted By: DREW REYNOLDS

Farm ID:

JOHN D LACKS/LÜSDL LUNENBURG

Date Received: 05/29/2012

Date Of Report: 05/31/2012

SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N Ib/A	Phosphate P ₂ O ₅ Ib/A	Potash K₂O Ib/A	Magnesium Mg lb/A	Sülfür S Ib/A	Zinc Zn Ib/A	Manganese Mn lb/A	iron Fe ib/A	Copper Cu Ib/A	Boron B Ib/A
26	Adjust pH to 6.8	0	1.0				0					·	
27Å	Adjust pH to 6.8	o	1.3				0				• •		
278	Adjust pH to 6.8	0	1.0				0	:					
21B	Adjust pH to 6.8	0	1.8				28			:			

Comments:

Sample(s) 21B:

Apply dolomitic lime to raise pH and improve the magnesium level.

If dolomitic lime is not used, apply required magnesium with magnesium oxide. Epsom Salts, K-Mag or Sul-PO-Mag.

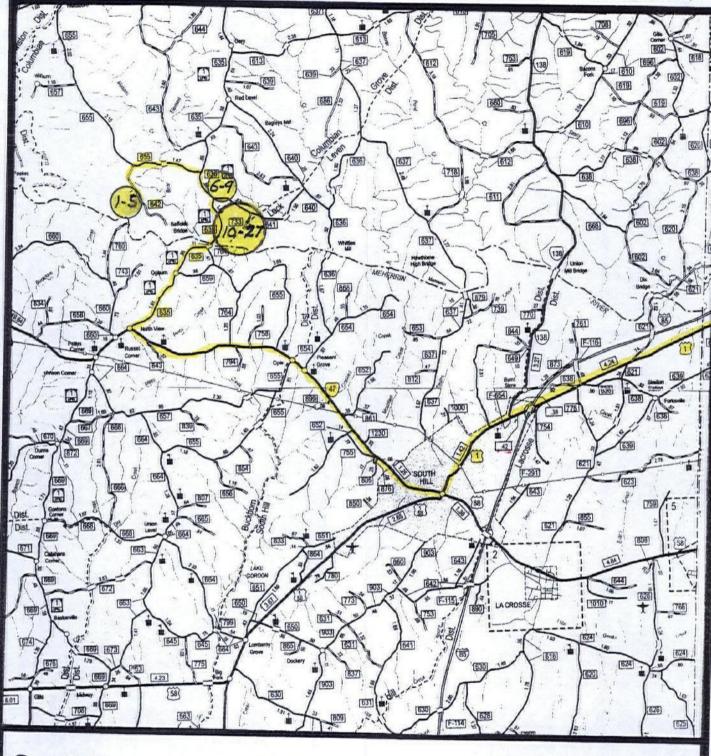
"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

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MAPS

(Biosolids Land Application)





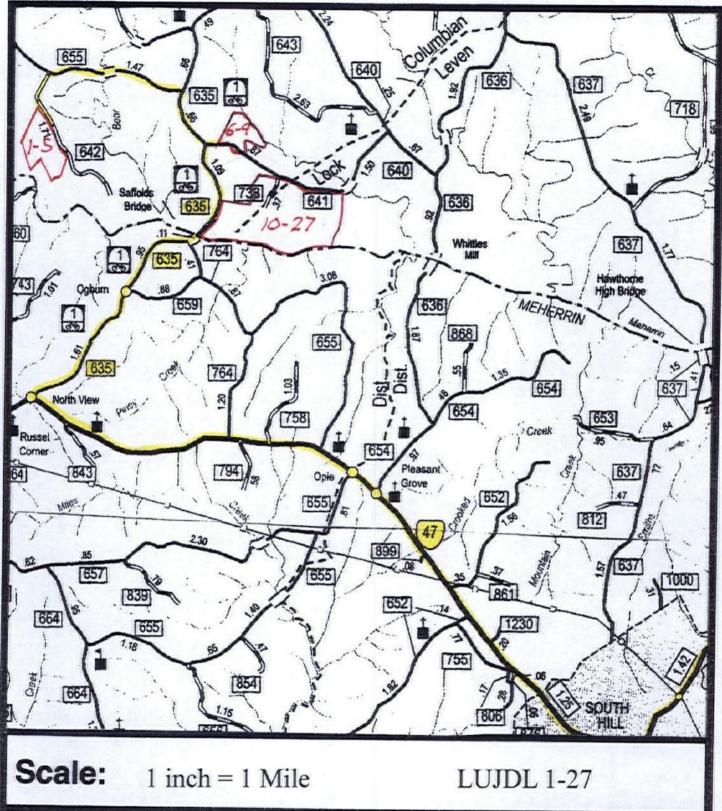
Scale:

1 inch = 2 Miles

LUJDL 1-27

(Biosolids Land Application)



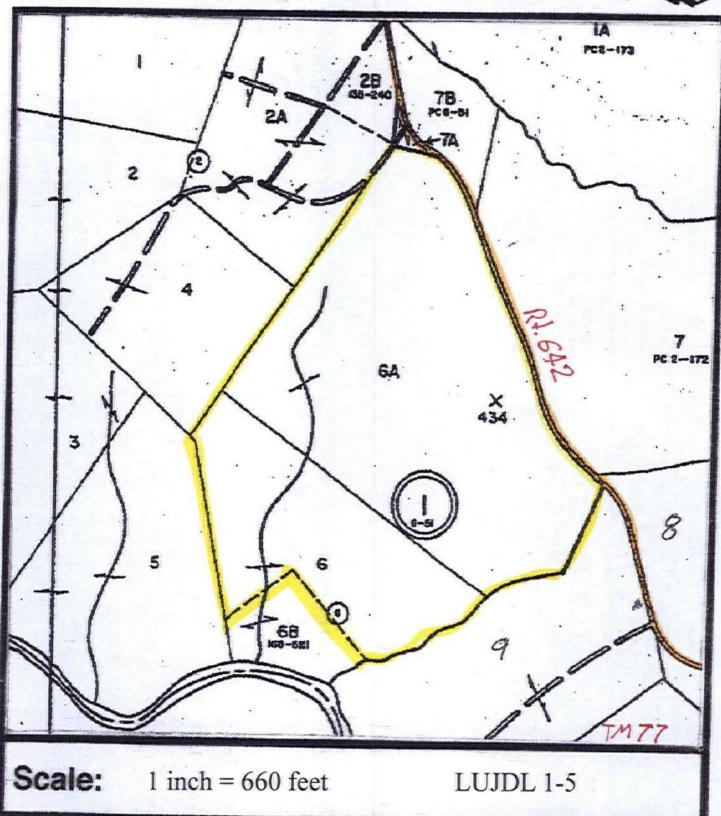


VICINITY MAP

NA

(Biosolids Land Application)



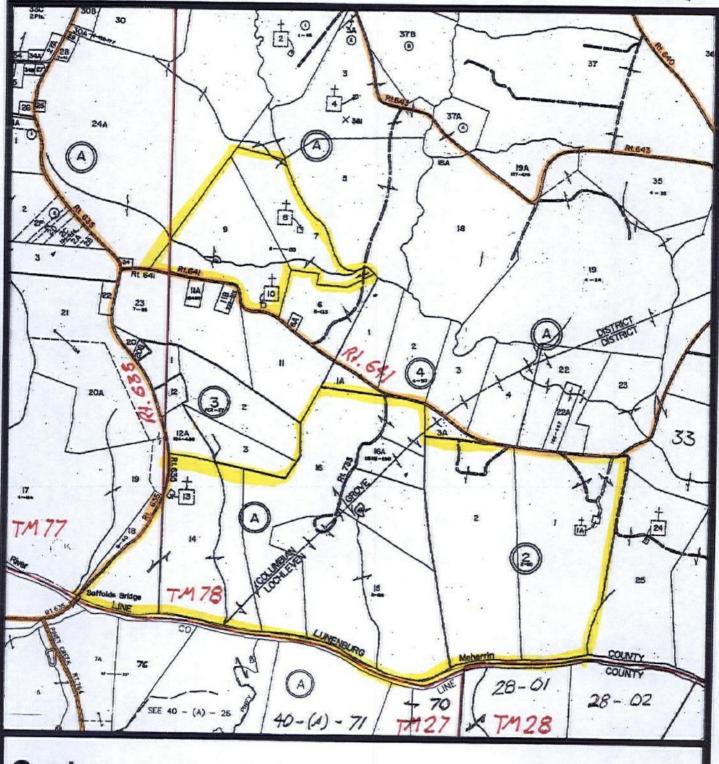


TAX MAP

AN

NC. (Biosolids Land Application)





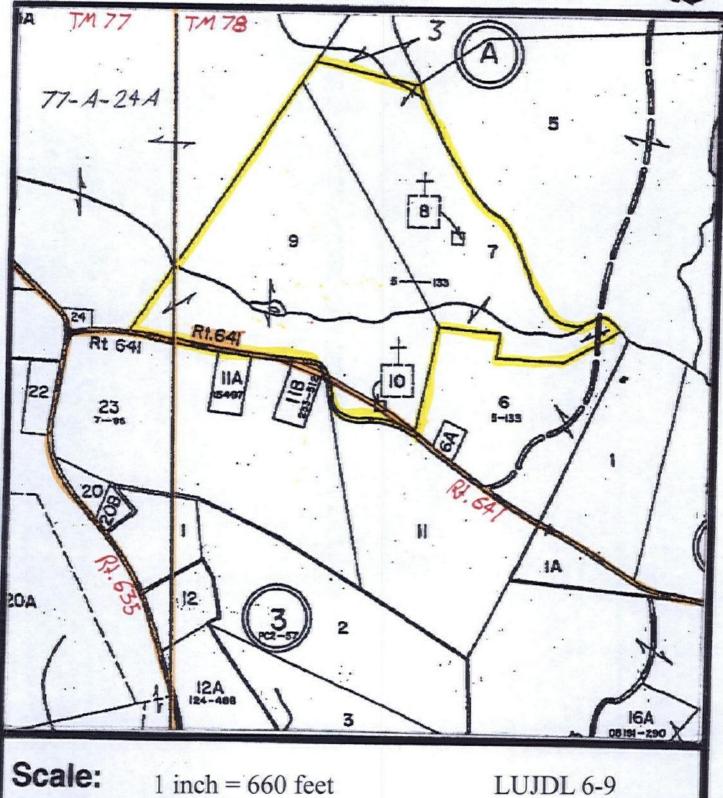
Scale:

1 inch = 1,500 feet

LUJDL 6-27

(Biosolids Land Application)



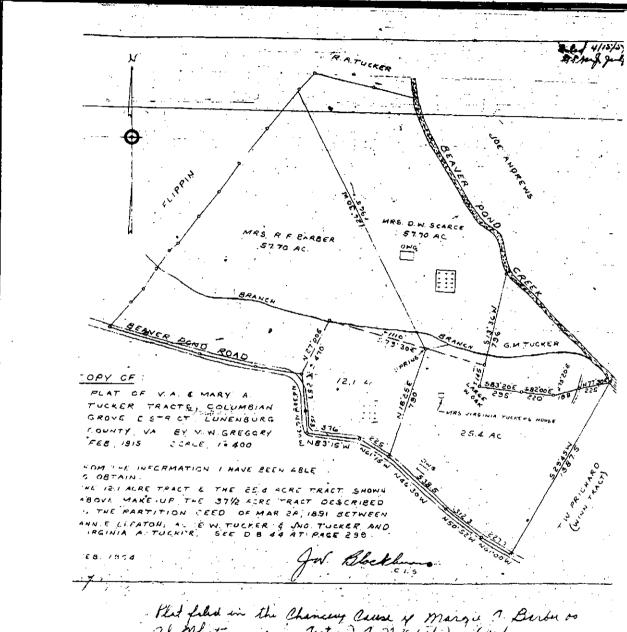


TAX MAP

AM

(Biosolids Land Application)





Il Whitim is a Juste 2.1. Market In Vard

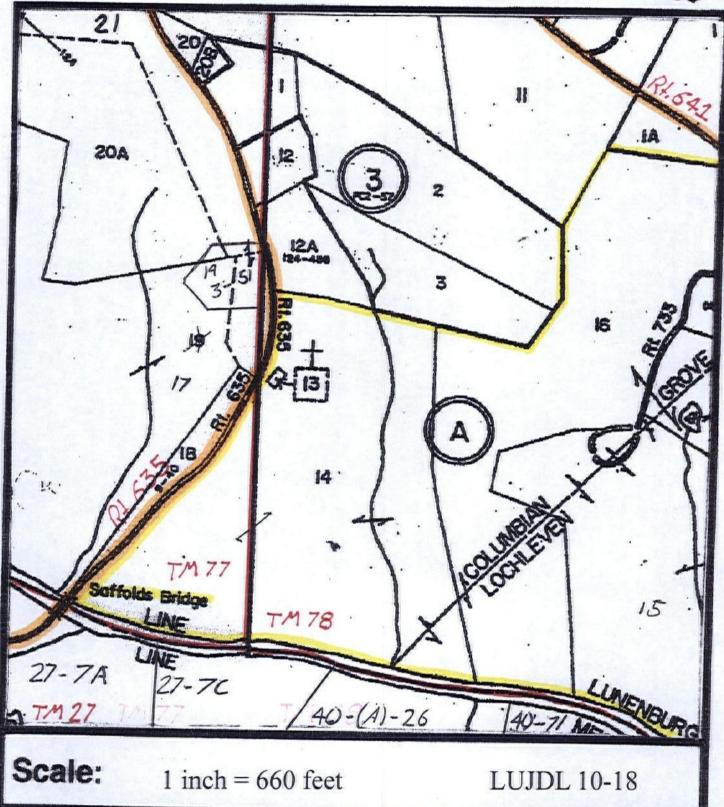
Scale:

1 inch = 660 feet

LUJDL 6-9

(Biosolids Land Application)



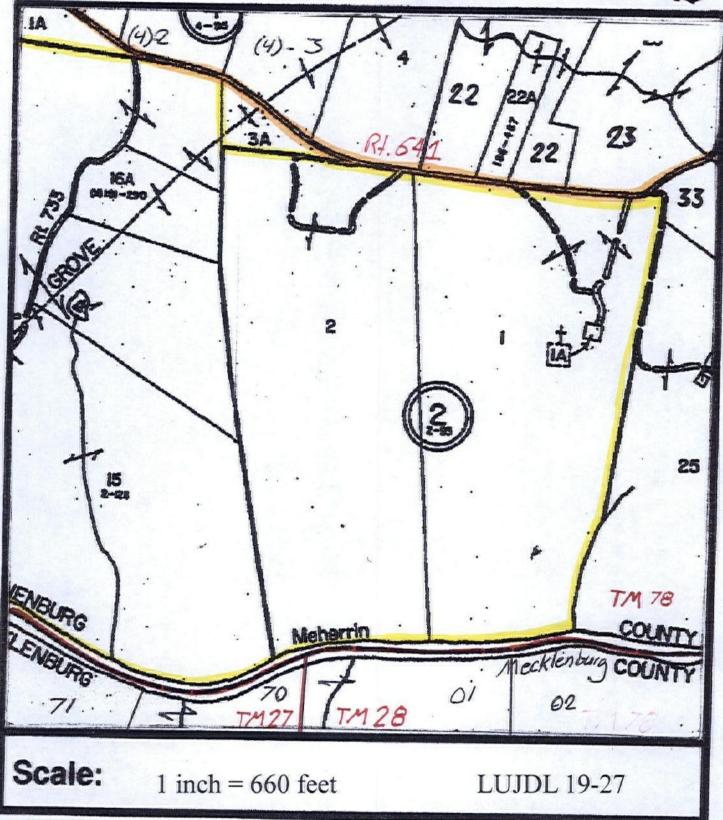


TAX MAP

MA

(Biosolids Land Application)





TAX MAP

N A

ADJOINING LANDOWNERS

John D Lacks Site

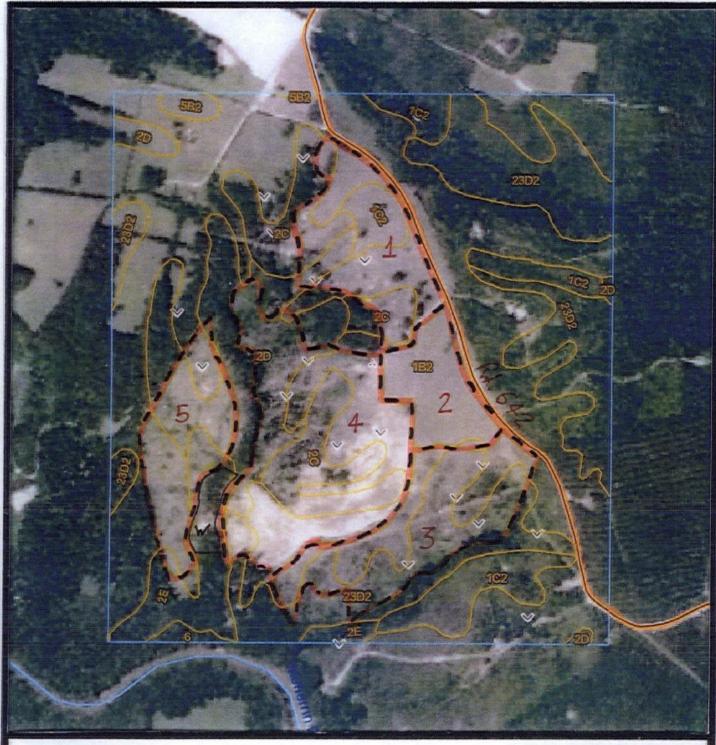
LUNENBURG COUNTY

Тах Мар	Parcel #	- Owner Name(s)
27	(A))77A	Myrl WCCowdterJtr.
27	(A)(C	Nina C Ras h
28	(A) 0 1	John B Warrem
28	(A) 022	John B Wannen
40	(A) 26	Nina Ellizatioth Chowdet
40	(A) 7/1	Myrl WCGrowdled Ir.
40	(A) 7/0	Almalyle LWancen
77	(A) 7	George oo:BethPfelfer
77 "	(A))77AA	Little Cabin IIIICC
77	(A))77BB	George on Bitth Pfelfer
77	(A) 8	Wilma R or Stwant FWIIlear
77	(A)9	Ralph .II. Bagdey
77	(A) 17	Arbortech Hovests Productulesc. Inc.
77	(A) 18	Shiriley Strewart Miletes
77	(A) 19	· James LLIbness
77	(A) 211	mm Wright inc.
77	(1))22 AA	Claude H. Yeatts
77	(D)24B	Gloria E. Jlones
77,	(1))44	Raimay Jonas Jr. Jr.
77	(1)5	John Lor Sally J. Baglet
77 '	(1)66	John D. Lacks
77	_(101)66A	John D.Lacks
77	(1)66BB	Hohn R or Patricia B Fichter
78	(A)3	Shirley A.Spence
78	(A)5	Joanne AAdreliusus Richardi Fosterster
78	(A)6	Joanne AAdrewsse RadharddFosfeoster
78	(A) 7	John D.Lacks
78	(A)9	John I Landks or PetenynyD Landksks
78	(A) 11	Damny Ray Lacks
78	(A)1111 A	James K KiKġ ng
78	(A) 11B	Coral Moore Sir.
78	(A) 112A	Joe & Cattherine BHIostetter
78	(A) 13	Cemettry

l	78	(A) 14	John 10. or Efilien Lacksks
	7 8	(A) 15	John D. Lacks
	78	(A) 16	John D. Lacks
	78	(A) 16A	Danny R Lacks
	7 8	(A) 22	Diame Marie Compton
	78	(A) 22A	William Milleroor Wellissa Joann Boeth lisberigtisbeg
	7 8	(A) 23	Charles Fftiggrald/Cattereffall
	78	(A) 24A	Cematery
	78	(A) 25	W.A. or Wany C.M. Manningg
1	78	(A) 33	William Wook Luidsgey T. Warren
	7 8	(2) 1	John 1D. Lacks
	78	(2) 1A	Cematery
	78	(2) 2	John ID. Lacks
	78	(3) 1A	Clanence WW & Athbony AB Brownen
	78	(3) 2	Paul M.Bowen
	78	(3)3	Joe Lewis or Catherine B. Hill batetten
	78	(4) 1A	Dammy R Lacks
	· 78	(4) 2	James RRC6nptondrJr.
	7 8	(4)3A	Dammy R Laudis
	78	(4)4	Diane C. Hiv ol jy

Recyc Systems. (Biosolids Land Application)





Scale:

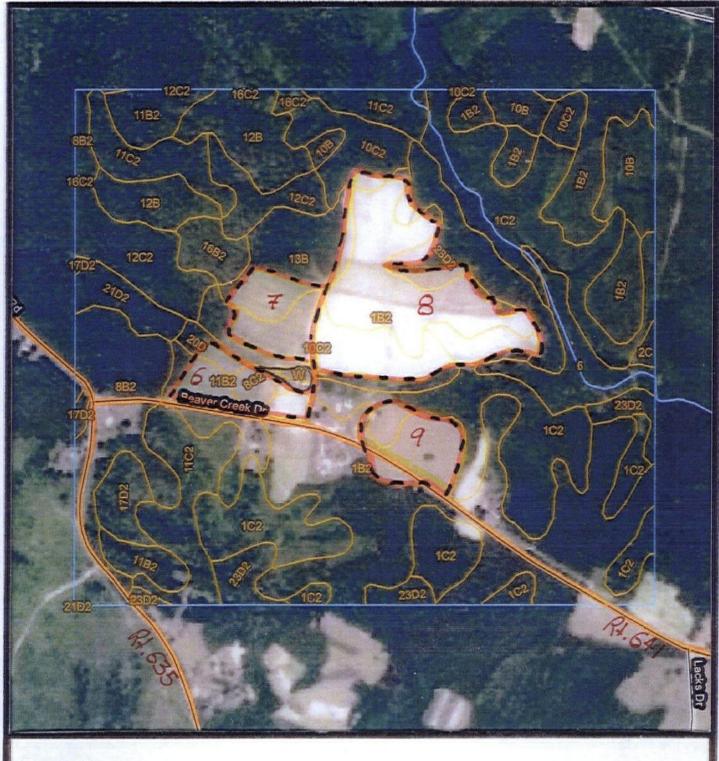
1 inch = 660 feet

LUJDL 1-5

SOIL MAP

(Biosolids Land Application)





Scale:

1 inch = 660 feet

LUJDL 6-9

SOIL MAP

(Biosolids Land Application)





Scale: 1 inch = 660 feet

LUJDL 10-18

(Biosolids Land Application)





Scale:

1 inch = 660 feet

LUJDL 19-27

(Biosolids Land Application)





TN 639

Scale:

1 inch = 660 feet

LUJDL 1-5

AERIAL MAP

N

(Biosolids Land Application)





TN828

Scale:

1 inch = 660 feet

LUJDL 6-9

AERIAL MAP



(Biosolids Land Application)





Scale:

1 inch = 660 feet

LUJDL 10-14

AERIAL MAP



(Biosolids Land Application)





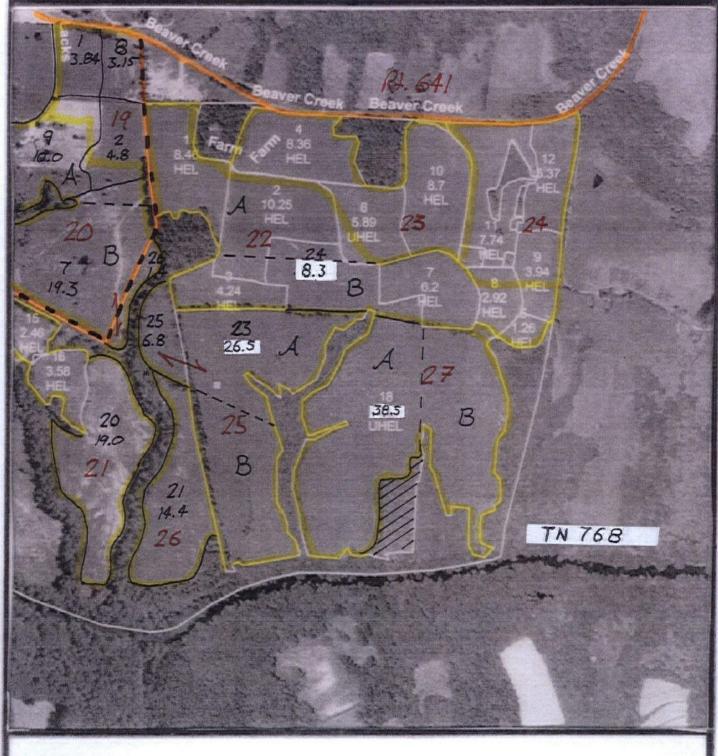
Scale:

1 inch = 660 feet

LUJDL 15-21, 25, 26

(Biosolids Land Application)





Scale:

1 inch = 660 feet

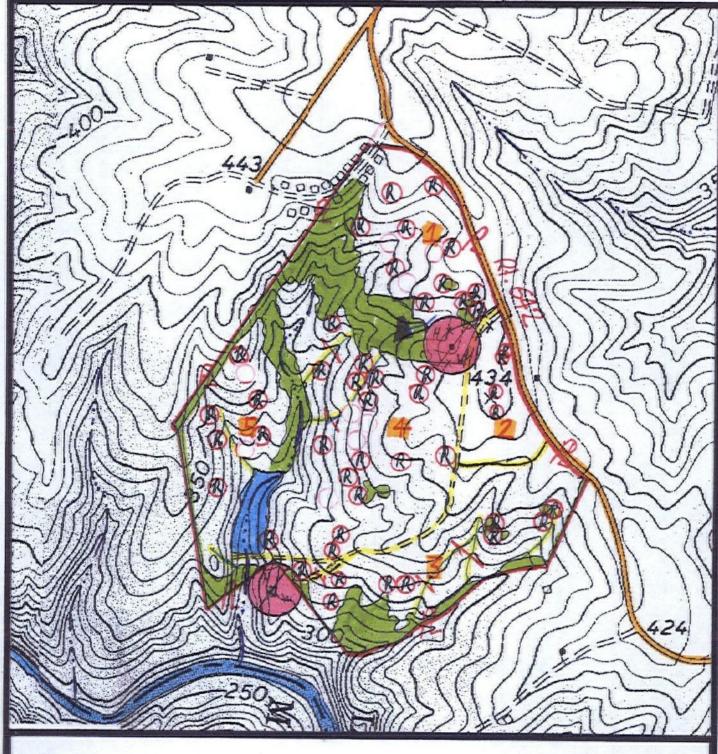
LUJDL 19-27

Legend for Site Plan

House and Well Well / Spring Perennial Streams & Surface Wet Spot Intermittent Stream / Drainage Trees and Woods Private Drive Rock / Rocky Area Sinkhole Severely Eroded Spot State Road Field Boundary / Fence Property Line Slope Frequent Flooded Soil

1C. (Biosolids Land Application)





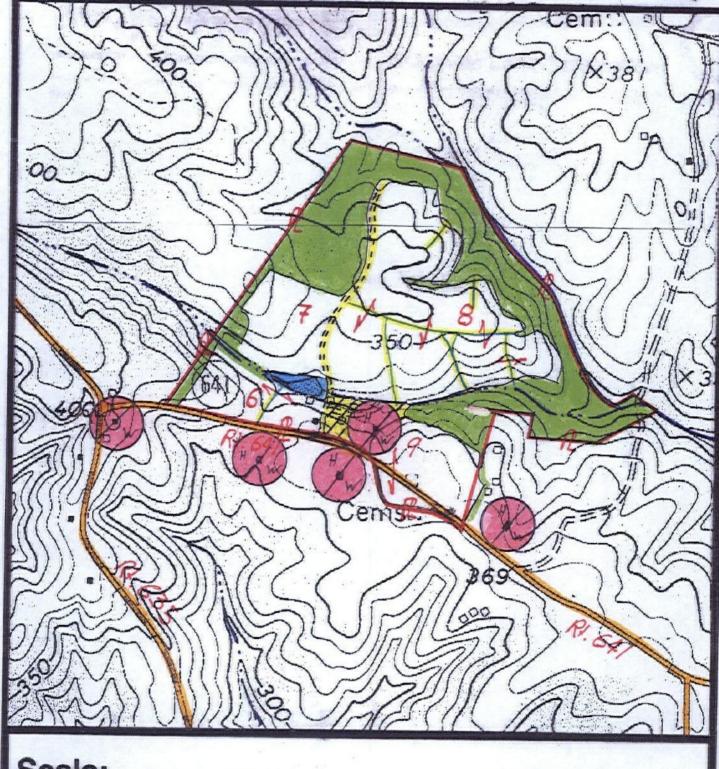
Scale:

1 inch = 660 feet

LUJDL 1-5

(Biosolids Land Application)





Scale:

1 inch = 660 feet

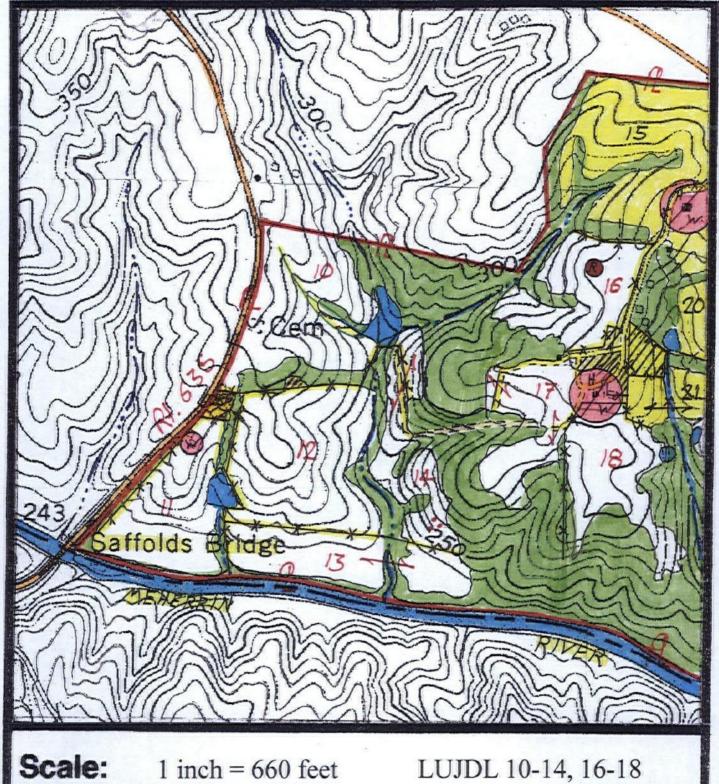
LUJDL 6-9

SITE PLAN

N

(Biosolids Land Application)



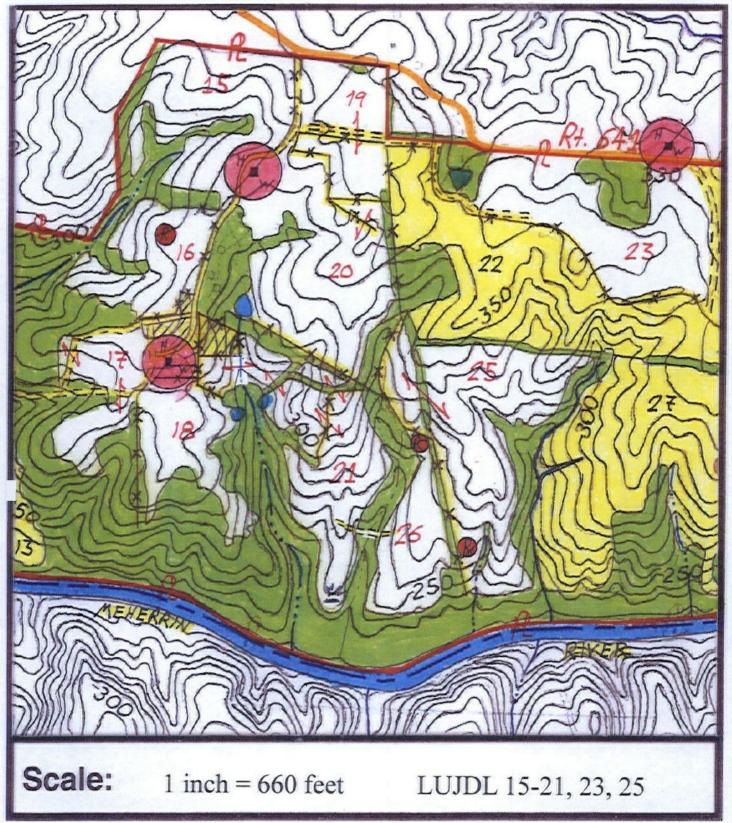


SITE PLAN

NA

(Biosolids Land Application)



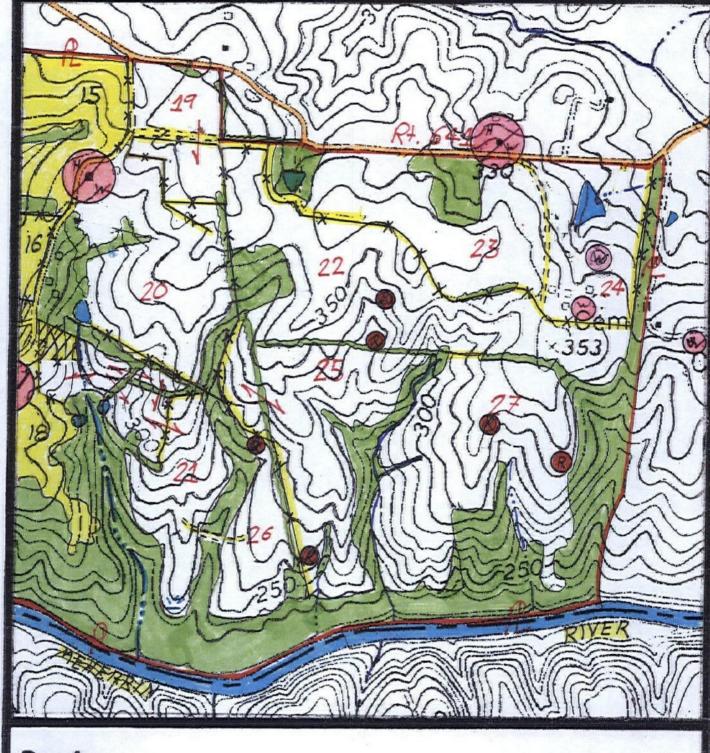


SITE PLAN

Recyc Systems Inc.

(Biosolids Land Application)





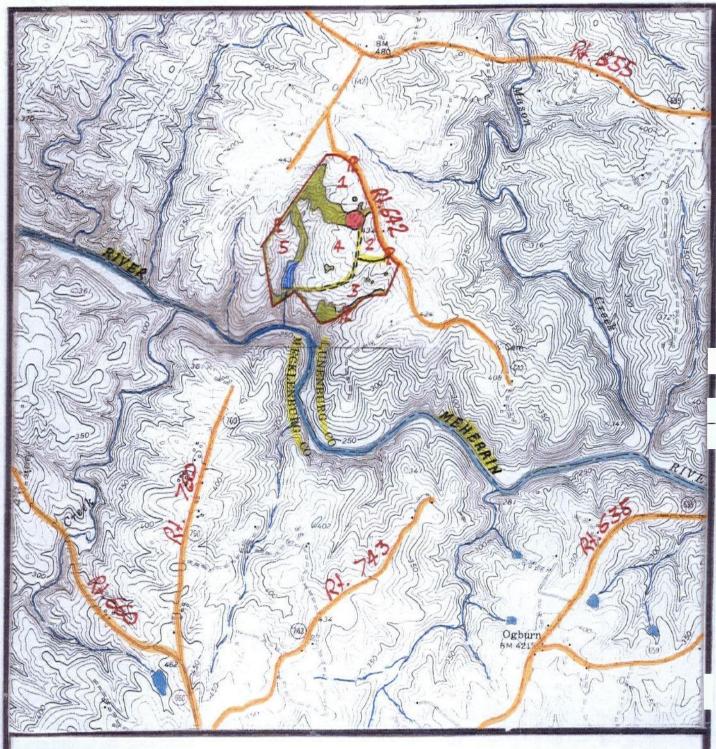
Scale: 1 inch = 660 feet

LUJDL 19-27

SITE PLAN

(Biosolids Land Application)





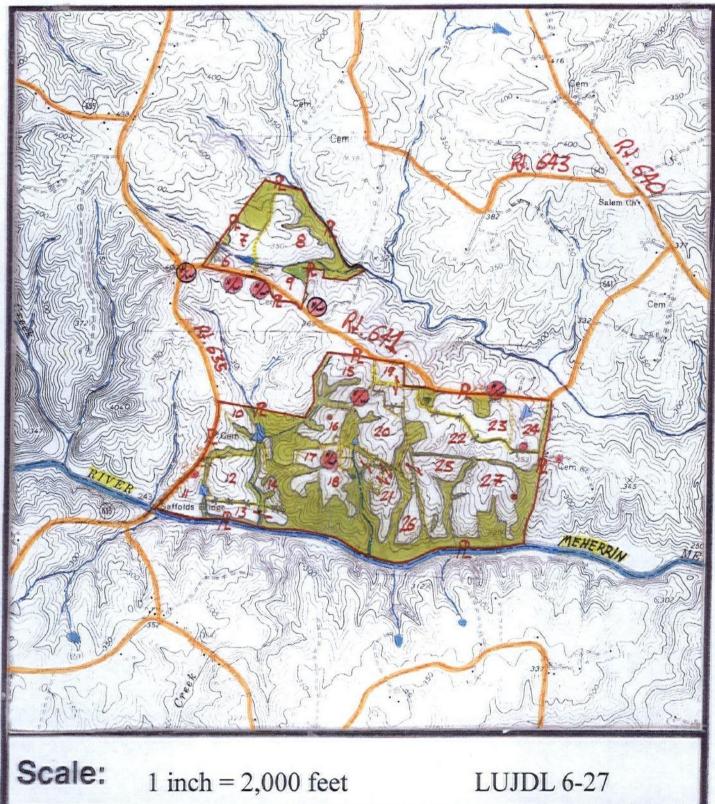
Scale:

1 inch = 2,000 feet

LUJDL 1-5

(Biosolids Land Application)





TOPOGRAPHIC MAP